

# PHOTOVOLTAIC FAÇADE

## NEW CONSTRUCTION

The MOLEcoLAB, housed within the Medical University in Lodz, Poland, marks a significant achievement in construction standards. It stands as Poland's **pioneering laboratory building to have reduced energy demand to just 15 kWh per m<sup>2</sup> annually by integrating bioclimatic architectural solutions that remarkably combine active properties, such as on-site solar energy generation, and passive ones.**

The project features two distinct constructive solutions:

· A **photovoltaic ventilated façade** crafted from crystalline silicon photovoltaic glass with varied dimensions and a blue-colored rear glass.

· A **bicycle shelter**, designed with a similar glass configuration.



### TECHNICAL DATA

Nominal Power (Wp/m <sup>2</sup> )	164 Wp/m <sup>2</sup>
Visible Light Transmittance (VLT)	18%
Solar Factor (g-value)	29%
U value (W/m <sup>2</sup> K)	N/A
U value (Btu/h ft <sup>2</sup> °F)	N/A
Light Reflection (external)	8%



TECHNICAL DATA SHEET



**MOLECOLAB**  
 MEDICAL UNIVERSITY, LODZ, POLAND  
**FAÇADE**  
 CRYSTALLINE SILICON TECHNOLOGY



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